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Das Python-Tutorial — Das Python3.2-Tutorial auf Deutsch
To move to Python 3, or to support Python 2 and Python 3 simultaneously, you should ensure that your Python 2 code is completely Python 2.7 compatible. Many developers have already been working exclusively with Python 2.7 code, but it is important to confirm that anything that is only supported by earlier versions is working properly with Python 2.7 and is consistent with Python 2.7 style.

How To Port Python 2 Code to Python 3 | DigitalOcean
The Python Tutorial¶ Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python ' s elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms. The Python ...

The Python Tutorial — Python 3.9.0 documentation
Python 3 Python 2; Release Date: 2008 : 2000 : Function print: print ("hello") print "hello" Division of Integers : Whenever two integers are divided, you get a float value : When two integers are divided, you always provide integer value. Unicode: In Python 3, default storing of strings is Unicode. To store Unicode string value, you require to define them with "u". Syntax : The syntax is ...

Python 2 vs Python 3: Key Differences - Guru99
Eine der besten Einf ührungen in Python ist immer noch das offizielle Python-Tutorial, jetzt auch auf deutsch verf ügbar (f ü r Python 3.x) Python 2 . Martin von L ö wis, Nils Fischbeck ; 382731691X, Addison-Wesley-Longman (November 2000) The second edition of Das Python-Buch, this German book covers Python 2.0. It emphasizes language concepts, but also covers GTK+/GNOME, CORBA, and XML ...

GermanPythonBooks - Python Wiki
In 2000, Python 2.0 was released. Python 2.7.11 is the latest edition of Python 2. Meanwhile, Python 3.0 was released in 2008. Python 3 is not backward compatible with Python 2. The emphasis in Python 3 had been on the removal of duplicate programming constructs and modules so that "There should be one -- and preferably only one -- obvious way ...

Python 3 - Overview - Tutorialspoint
Please refer to this link for our Python 2 tutorial. Why to Learn Python 3? Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages. Python is a MUST for students and working ...

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Python Tutorial - Dataclasses - Neu in Python 3.7 Das Python3.2-Tutorial auf Deutsch, Release 3.2 Release 3.2 Date September 24, 2014 Python ist eine einfach zu lernende, aber m ä chtige Programmiersprache mit ef fizienten abstrakten Datenstrukturen und einem einfachen, aber effektiven Ansatz zur objektorientierten Programmierung. Durch die elegante Syntax und die The Python Tutorial — Python ...

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Der Python-Interpreter kann auf einfache Weise um neue Funktionen und Datentypen erweitert werden, die in C oder C++ (oder andere Sprachen, die sich von C aus auf ühren lassen) implementiert sind. Auch als Erweiterungssprache für anpassbare Applikationen ist Python hervorragend geeignet. Dieses Tutorial stellt die Grundkonzepte und Eigenschaften der Sprache und des Systems Python vor. Zwar ...

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ACHTUNG: Wer Schwierigkeiten hat oder einen Fehler bekommt. Wenn ein Leerzeichen im Pfad oder im Nutzernamen vorkommt, der muss das so machen: python "C:\Us...

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Python 3.2. Note: A newer security-fix release, 3.2.6, is currently available. Its use is recommended. Python 3.2 was released on February 20th, 2011. Python 3.2 is a continuation of the efforts to improve and stabilize the Python 3.x line. Since the final release of Python 2.7, the 2.x line will only receive bugfixes, and new features are developed for 3.x only. Since PEP 3003, the Moratorium ...

Python 3.2 Release | Python.org
Das Python3 3 Tutorial Auf Please refer to this link for our Python 2 tutorial. Why to Learn Python 3? Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages. Python is a MUST ...

Das Python3 3 Tutorial Auf Deutsch - ulaznice.scardona.hr
Python Tutorial. Python 3 in 1 Hour. By Xah Lee. Date: 2013-02-16. Last updated: 2019-03-21. This is a Python 3 tutorial. This page is a summary of the basics for beginners. Examples on this page are based on Python 3.7. For python 2, see: Python 2 Basics. Python 3 source file must be saved in UTF 8 encoding. Make sure your editor saves it in UTF 8. (usually there's a preference setting.) [see ...

Python 3 in 1 Hour - Xah Lee
Anmerkung hierzu: Bei der neuesten Python Installation muss kein Pfad mehr eingetragen werden, da gibt's bei der Installation einfach einen Haken gaanz am A...

Python 3 Tutorial #1 - Einleitung und Installation - YouTube
Download the latest Python 3 and Python 2 source. Read more. Alternative Implementations. This site hosts the "traditional" implementation of Python (nicknamed CPython). A number of alternative implementations are available as well. Read more. History. Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum in the Netherlands as a successor of a language ...

Download Python | Python.org
Non-Programmer's Tutorial for Python 3/Print version Contents 1 1. Front matter 1.1 Other resources 2 2. Intro 2.1 First things first 2.2 Installing Python 2.2.1 Linux, BSD, and Unix users 2.2.2 Mac users 2.2.3 Windows users 2.2.3.1 Configuring your PATH environment variable 2.3 Interactive Mode 2.4 Creating and Running Programs 2.4.1 Program file names 2.5 Using Python from the command line 2 ...

Non-Programmer's Tutorial for Python 3/Print version
This is a technical course that introduces the Python 3 programming language. This course is suitable for programmers starting new projects in Python 3, or for those porting existing applications from Python 2.

Python 3 Programming | QA Training
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Python Essential Reference is the definitive reference guide to the Python programming language — the one authoritative handbook that reliably untangles and explains both the core Python language and the most essential parts of the Python library. Designed for the professional programmer, the book is concise, to the point, and highly accessible. It also includes detailed information on the Python library and many advanced subjects that is not available in either the official Python documentation or any other single reference source. Thoroughly updated to reflect the significant new programming language features and library modules that have been introduced in Python 2.6 and Python 3, the fourth edition of Python Essential Reference is the definitive guide for programmers who need to modernize existing Python code or who are planning an eventual migration to Python 3. Programmers starting a new Python project will find detailed coverage of contemporary Python programming idioms. This fourth edition of Python Essential Reference features numerous improvements, additions, and updates: Coverage of new language features, libraries, and modules Practical coverage of Python's more advanced features including generators, coroutines, closures, metaclasses, and decorators Expanded coverage of library modules related to concurrent programming including threads, subprocesses, and the new multiprocessing module Up-to-the-minute coverage of how to use Python 2.6 ' s forward compatibility mode to evaluate code for Python 3 compatibility Improved organization for even faster answers and better usability Updates to reflect modern Python programming style and idioms Updated and improved example code Deep coverage of low-level system and networking library modules — including options not covered in the standard documentation

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you ' ll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

Learn efficient Python coding within 7 days About This Book Make the best of Python features Learn the tinge of Python in 7 days Learn complex concepts using the most simple examples Who This Book Is For The book is aimed at aspiring developers and absolute novice who want to get started with the world of programming. We assume no knowledge of Python for this book. What You Will Learn Use if else statement with loops and how to break, skip the loop Get acquainted with python types and its operators Create modules and packages Learn slicing, indexing and string methods Explore advanced concepts like collections, class and objects Learn dictionary operation and methods Discover the scope and function of variables with arguments and return value In Detail Python is a great language to get started in the world of programming and application development. This book will help you to take your skills to the next level having a good knowledge of the fundamentals of Python. We begin with the absolute foundation, covering the basic syntax, type variables and operators. We'll then move on to concepts like statements, arrays, operators, string processing and I/O handling. You'll be able to learn how to operate tuples and understand the functions and methods of lists. We'll help you develop a deep understanding of list and tuples and learn python dictionary. As you progress through the book, you'll learn about function parameters and how to use control statements with the loop. You'll further learn how to create modules and packages, storing of data as well as handling errors. We later dive into advanced level concepts such as Python collections and how to use class, methods, objects in python. By the end of this book, you will be able to take your skills to the next level having a good knowledge of the fundamentals of Python. Style and approach Fast paced guide to get you up-to-speed with the language. Every chapter is followed by an exercise that focuses on building something with the language. The codes of the exercises can be found on the Packt website

Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz ' s popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It ' s an ideal way to begin, whether you ' re new to programming or a professional developer versed in other languages. Complete with quizzes, exercises, and helpful illustrations, this easy-to-follow, self-paced tutorial gets you started with both Python 2.7 and 3.3— the latest releases in the 3.X and 2.X lines—plus all other releases in common use today. You ' ll also learn some advanced language features that recently have become more common in Python code. Explore Python ' s major built-in object types such as numbers, lists, and dictionaries Create and process objects with Python statements, and learn Python ' s general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements, functions, and other tools into larger components with modules Dive into classes: Python ' s object-oriented programming tool for structuring code Write large programs with Python ' s exception-handling model and development tools Learn advanced Python tools, including decorators, descriptors, metaclasses, and Unicode processing

Python 3 is the best version of the language yet: It is more powerful, convenient, consistent, and expressive than ever before. Now, leading Python programmer Mark Summerfield demonstrates how to write code that takes full advantage of Python 3 ' s features and idioms. The first book written from a completely " Python 3 " viewpoint, Programming in Python 3 brings together all the knowledge you need to write any program, use any standard or third-party Python 3 library, and create new library modules of your own. Summerfield draws on his many years of Python experience to share deep insights into Python 3 development you won ' t find anywhere else. He begins by illuminating Python ' s " beautiful heart " : the eight key elements of Python you need to write robust, high-performance programs. Building on these core elements, he introduces new topics designed to strengthen your practical expertise— one concept and hands-on example at a time. This book ' s coverage includes Developing in Python using procedural, object-oriented, and functional programming paradigms Creating custom packages and modules Writing and reading binary, text, and XML files, including optional compression, random access, and text and XML parsing Leveraging advanced data types, collections, control structures, and functions Spreading program workloads across multiple processes and threads Programming SQL databases and key-value DBM files Utilizing Python ' s regular expression mini-language and module Building usable, efficient, GUI-based applications Advanced programming techniques, including generators, function and class decorators, context managers, descriptors, abstract base classes, metaclasses, and more Programming in Python 3 serves as both tutorial and language reference, and it is accompanied by extensive downloadable example code—all of it tested with the final version of Python 3 on Windows, Linux, and Mac OS X.

The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to: • Search for text in a file or across multiple files • Create, update, move, and rename files and folders • Search the Web and download online content • Update and format data in Excel spreadsheets of any size • Split, merge, watermark, and encrypt PDFs • Send email responses and text notifications • Fill out online forms Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition.

Make the Leap From Beginner to Intermediate in Python... Python Basics: A Practical Introduction to Python 3 Your Complete Python Curriculum-With Exercises, Interactive Quizzes, and Sample Projects What should you learn about Python in the beginning to get a strong foundation? With Python Basics, you'll not only cover the core concepts you really need to know, but you'll also learn them in the most efficient order with the help of practical exercises and interactive quizzes. You'll know enough to be dangerous with Python, fast! Who Should Read This Book If you're new to Python, you'll get a practical, step-by-step roadmap on developing your foundational skills. You'll be introduced to each concept and language feature in a logical order. Every step in this curriculum is explained and illustrated with short, clear code samples. Our goal with this book is to educate, not to impress or intimidate. If you're familiar with some basic programming concepts, you'll get a clear and well-tested introduction to Python. This is a practical introduction to Python that jumps right into the meat and potatoes without sacrificing substance. If you have prior experience with languages like VBA, PowerShell, R, Perl, C, C++, C#, Java, or Swift the numerous exercises within each chapter will fast-track your progress. If you're a seasoned developer, you'll get a Python 3 crash course that brings you up to speed with modern Python programming. Mix and match the chapters that interest you the most and use the interactive quizzes and review exercises to check your learning progress as you go along. If you're a self-starter completely new to coding, you'll get practical and motivating examples. You'll begin by installing Python and setting up a coding environment on your computer from scratch, and then continue from there. We'll get you coding right away so that you become competent and knowledgeable enough to solve real-world problems, fast. Develop a passion for programming by solving interesting problems with Python every day! If you're looking to break into a coding or data-science career, you'll pick up the practical

foundations with this book. We won't just dump a boat load of theoretical information on you so you can "sink or swim"-instead you'll learn from hands-on, practical examples one step at a time. Each concept is broken down for you so you'll always know what you can do with it in practical terms. If you're interested in teaching others "how to Python," this will be your guidebook. If you're looking to stoke the coding flame in your coworkers, kids, or relatives-use our material to teach them. All the sequencing has been done for you so you'll always know what to cover next and how to explain it. What Python Developers Say About The Book: "Go forth and learn this amazing language using this great book." - Michael Kennedy, Talk Python "The wording is casual, easy to understand, and makes the information flow well." - Thomas Wong, Pythonista "I floundered for a long time trying to teach myself. I slogged through dozens of incomplete online tutorials. I snoozed through hours of boring screencasts. I gave up on countless cruffy books from big-time publishers. And then I found Real Python. The easy-to-follow, step-by-step instructions break the big concepts down into bite-sized chunks written in plain English. The authors never forget their audience and are consistently thorough and detailed in their explanations. I'm up and running now, but I constantly refer to the material for guidance." - Jared Nielsen, Pythonista

Python3 ist in der beruflichen Bildung sowie in Studium und Praxis eine der beliebtesten Programmiersprachen. Dieses Arbeitsbuch ist als Workbook aufbereitet, wie Sie es aus dem Sprachunterricht kennen. Schrittweise werden die Inhalte erklärt, eine Vielzahl an Beispielen, Zwischenübungen sowie Programmieraufgaben helfen, das neue Wissen anzuwenden und zu festigen. Das Buch ist besonders für den Unterricht in Gymnasien, in Kollegs, in der beruflichen Aus- und Weiterbildung sowie in Programmierkursen geeignet. Für Selbstlerner gibt es zu dem Buch einen Lösers mit allen Lösungen zu den Übungsaufgaben.

This book shows readers how they can successfully analyze data using only two core machine learning algorithms---and how to do so using the popular Python programming language. These algorithms deal with common scenarios faced by all data analysts and data scientists. This book focuses on two algorithm families (linear methods and ensemble methods) that effectively predict outcomes. This type of problem covers a multitude of use cases (what ad to place on a web page, predicting prices in securities markets, detecting credit card fraud, etc.). The focus on two families gives enough room for full descriptions of the mechanisms at work in the algorithms. Then the code examples serve to illustrate the workings of the machinery with specific hackable code. The author will explain in simple terms, using no complex math, how these algorithms work, and will then show how to apply them in Python. He will also provide advice on how to select from among these algorithms, and will show how to prepare the data, and how to use the trained models in practice. The author begins with an overview of the two core algorithms, explaining the types of problems solved by each one. He then introduces a core set of Python programming techniques that can be used to apply these algorithms. The author shows various techniques for building predictive models that solve a range of problems, from simple to complex; he also shows how to measure the performance of each model to ensure you use the right one. The following chapters provide a deep dive into each of the two algorithms: penalized linear regression and ensemble methods. Chapters will show how to apply each algorithm in Python. Readers can directly use the sample code to build their own solutions.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

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